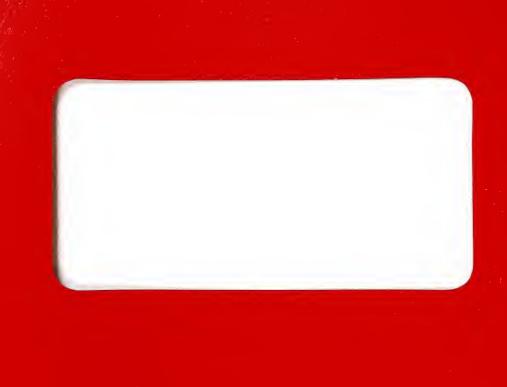
Cray

Customer Satisfaction Survey
Western Region
Report of Findings



Cray

Customer Satisfaction Survey
Western Region
Report of Findings



CRAY

CUSTOMER SATISFACTION SURVEY WESTERN REGION REPORT OF FINDINGS

JUNE 9, 1986

by Jack Keen, Project Manager

INPUT
1943 Landings Drive
Mountain View, CA 94303
(415) 960-3990

JUNE 1986 C. 1

AUTHOR

SURVEY WESTERN RECIONS REPORT OF

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LOANED

BORROWER'S NAME

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CONTENTS

- Objectives and Methodology
- Analysis of Findings
 - Overall Attitudes, Decision Criteria
 - Hardware Reliability/Support
 - Software Reliability/Support
 - CRI Marketing and Hardware Management
- Recommendations/Summary
- Sample Questionnaire



CRI OBJECTIVE

- Maintain CRI as the Standard of Value
- Further Strengthen CRI by:
 Using Customer Satisfaction as a Primary Competitive Edge
- Method:

Conduct Customer Satisfaction Survey to Understand Attitudes/Concerns

• Outcome:

Identify Steps to Enhance Customer Satisfaction



METHODOLOGY

- U.S.A. Customer's Only
- 42 Sites (West = 12)
- 45 Interviews (West = 14)
- 18 On-Site Interviews (West = 7)
- 27 Telephone Interviews (West = 7)
- Respondents: Person(s) Most Likely to:
 - Influence Next Supercomputer Acquisition
 - Be Most Knowledgeable of CRI Performance
- Standard Questionnaire
- Comments Actively Encouraged

- INPUT -



RATING SCALES

Respondents Often Asked to Rate
 Their Attitudes on a Scale of 1 to 10

1 - Low

10 - High

- Respondents Given No Further Description of Rating Values
- Generally Consider Evaluating Responses as Follows:

9 - 10 Excellent

7 - 8 Good

5 - 6 Fair

1 - 4 Poor

A = Western Region Number



WESTERN REGION **CUSTOMERS INTERVIEWED**

ORGANIZATION

Boeing Compter Services

Chevron Oil Field Research

Digital Productions

Fairchild

GA Technologies

Lawrence Livermore Nat. Lab. Bob Borchers

Lockheed Adv. Aeronautics

Lockheed Missiles and Space

NASA Ames

National Magnetic Fusion Energy

Rockwell

Sandia Nat. Lab., CA

RESPONDENT

Robert Spielman

Jim Simpson

Jim Davis

Carlso D'Angelo

Sid Karin

Harold Weinberger

Doug Telford

F. R. Bailey Marcie Smith John Kileen Marilyn Richards Dan Parcel Abraham Levine Steve Binkley



ANALYSIS OF FINDINGS

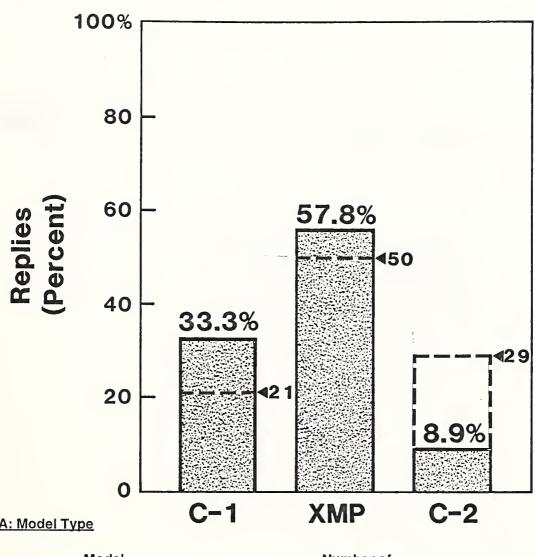


CUSTOMER PROFILE

- INPUT -



MODEL TYPE

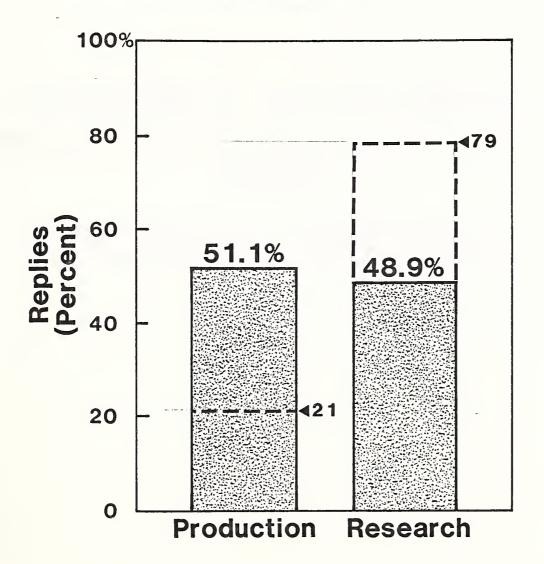


<u>Q1A:</u>	<u>Mode</u>	<u>l Type</u>

	Model <u>Type</u>	<u>Percent</u>	Number of <u>Cases</u>
All	C-1	33.3	15
	XMP	57.8	26
	C-2	8.9	4
West	C-1	21	3
	XMP	50	7
	C-2	29	4



PROCESSING TYPE



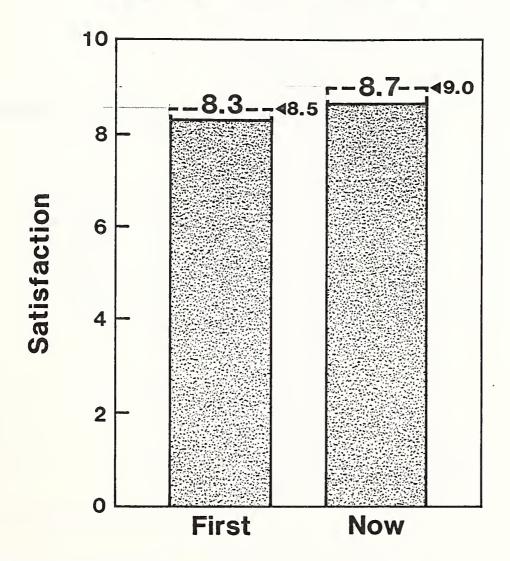
Q1F: PROCESSING TYPE



OVERALL ATTITUDES AND DECISION CRITERIA



CRAY SYSTEM MEETING EXPECTATIONS

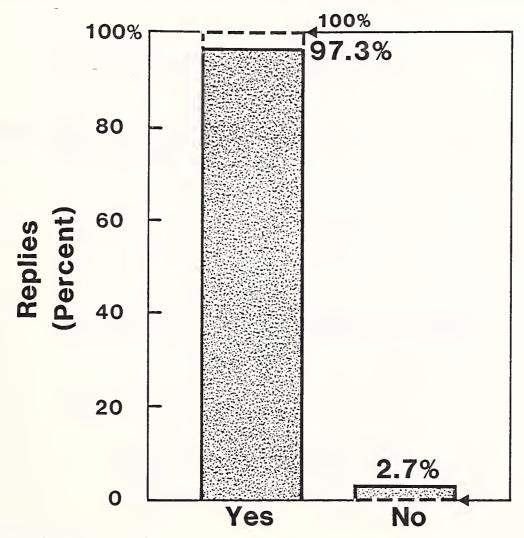


Q24: Extent Living up to Expectations

					Std.	
	<u>Code</u>	<u>Mean</u>	Min.	Max.	Dev.	<u>Cases</u>
All	First	8.3	1	10	2	45
	Now	8.7	5	10	1.3	45
West	First	8.5	5	10	1.2	14
	Now	9.0	8	10	8.0	14



BUY CRAY TOMORROW?



Q26: Buy Cray Tomorrow?

	Rating	Percent <u>Total</u>	Number of <u>Cases</u>
Ali	Yes	97.3	36
	No	2.7	1
	Total	100	37
West	Yes	100	11



WHY BUY FROM CRAY TOMORROW MORNING?

"Hardware Well-Designed"

"Compatibility"

"No Alternative Today"

"Dollar for Dollar, CRAY Is Best"

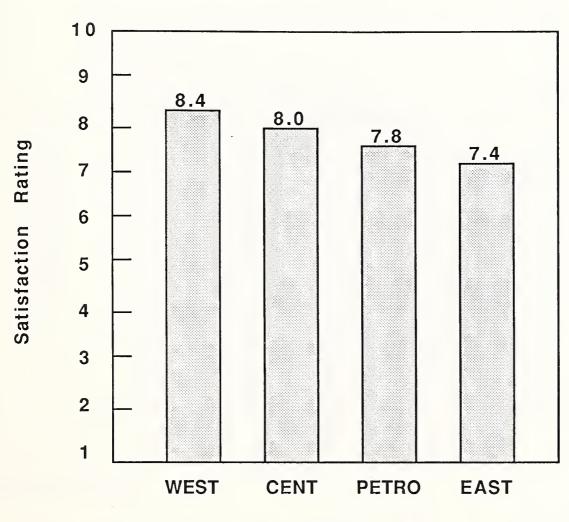
"But----"

"My Answer Might Be Different a Year from Now"

"Our Software Needs May Help CRI Competition"



REG. OS SKILL (SITE)



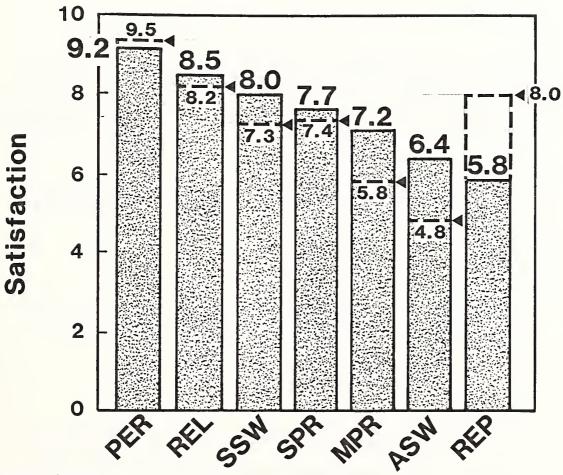
REGION

Q16: Region OS Skill Level (On-site)

<u>Region</u>	<u>Mean</u>	Min.	Max.	Std. <u>Dev.</u>	Number of <u>Cases</u>
West	8.4	8	10	.8	7
Cent	8	4	10	2.5	5
Petro	7.8	5	10	1.7	11
East	7.4	5	8	1.3	5
Total					21



DECISION CRITERIA TODAY



Q2: Decision Criteria

	<u>Code</u>	<u>Mean</u>	Min.	Max.	Std. <u>Dev.</u>	<u>Description</u>
All	PER	9.2	6.0	10.0	1.1	Overall System Perform.
	REL	8.5	3.0	10.0	1.6	System Reliability
	SSW	8.0	1.0	10.0	2.0	Availability of Sys. SW
	REP	5.8	1.0	10.0	3.0	Vendor Maint. Rep.
	SPR	7.7	4.0	10.0	1.6	Overall System Price
	MPR	7.2	3.0	10.0	1.8	Maintenance Price
	ASW	6.4	3.0	10.0	1.8	Avail. of Appl. SW
West	PER	9.5	8.0	10.0	0.8	
	REL	8.2	4.0	10.0	2.0	
	SSW	7.3	1.0	10.0	2.9	-
45	REP	8.0	5.0	10.0	1.7	
	SPR	7.4	4.0	10.0	1.8	
	MPR	5.8	3.0	8.0	1.6	
	ASW	4.8	1.0	10.0	2.9	





COMMENTS REGARDING DECISION CRITERIA

"Ease of Converting Is Very Important."

"Compatibility Is Very Important."

"Throughput and Compatibility Is Key."

"Availability of Systems Software Will Be Especially Important."

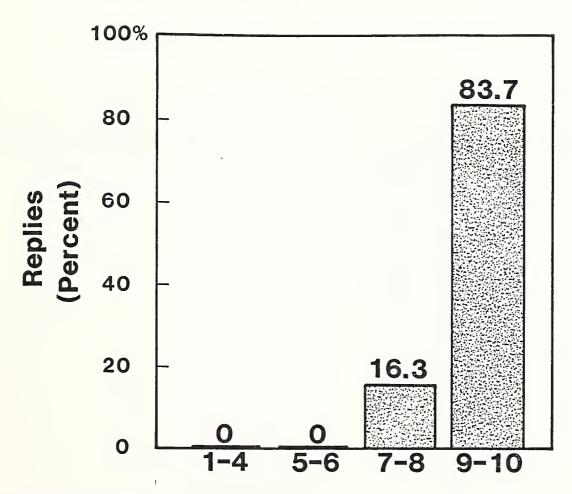


HARDWARE RELIABILITY/SUPPORT

INPUT -



HARDWARE INSTALLATION



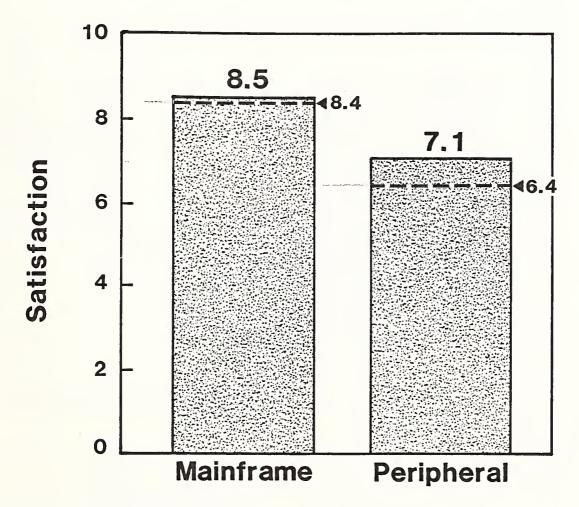
Q19: Hardware Installation

	Rating	Percent <u>Total</u>	Number of <u>Cases</u>	<u>Mean</u>	Min.	Max.	Std. <u>Dev.</u>
	1-4	0	0				
	5-6	0	0				
	7-8	16.3	7				
	9-10	83.7	36				
All	Total	100.0	43	9.4	7	10	.9
West			14	9.4	8	10	.8





HARDWARE SATISFACTION

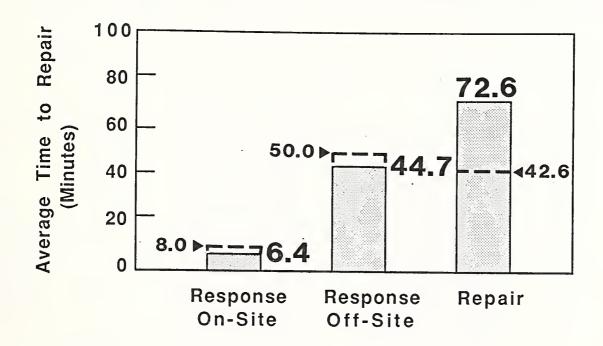


Q9: Mainframe Availability/Reliability

					Std.		
	<u>Code</u>	<u>Mean</u>	Min.	Max.	Dev.	<u>Cases</u>	<u>Description</u>
All	MF	8.5	2	10	1.8	44	Mainframe Avail./Reliability
	PER	7.1	2	10	1.8	42	Peripheral Avail./Reliability
West	MF	8.4					
	PER	6.4					



HARDWARE SUPPORT TIME

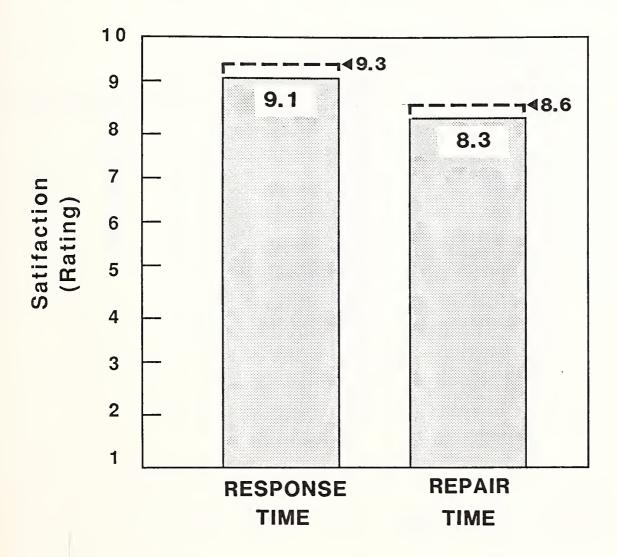


Q7A, B, Q8: Hardware Response/Repair Time

	<u>Code</u>	<u>Mean</u>	Min.	Max.	Std. <u>Dev.</u>	Number of <u>Cases</u>
All	Response On-Site	6.4	1	60	10.0	35
	Response Off-Site	44.7	10	75	17.7	17
	Repair	72.6	18	210	47.5	30
West	Response On-Site	8	1	60	16.5	12
	Response Off-Site	50	10	75	24.7	5
	Repair	42.6	18	60	16.6	17



HARDWARE MAINTENANCE SATISFACTION

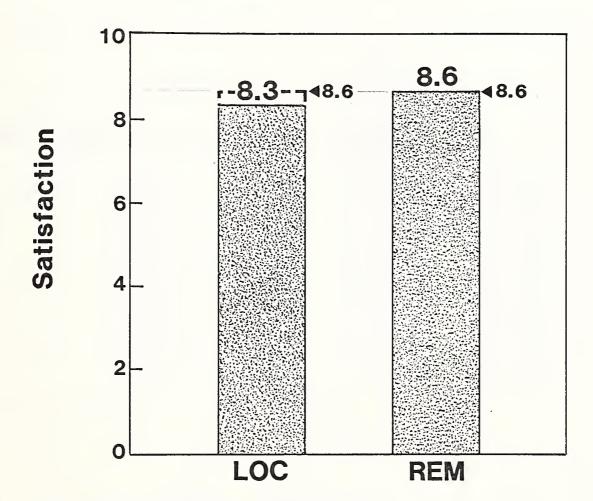


Q9C,D: Hardware Maintenance Response/Repair Time

	<u>Code</u>	<u>Mean</u>	Min.	Max.	Std. <u>Dev.</u>	Number of <u>Cases</u>
AII	RESPONSE	9.1	5	10	1.1	38
	REPAIR	8.3	2	10	1.7	37
West	RESPONSE	9.3	8	10	1.2	12
	REPAIR	8.6	6	10	2.0	11



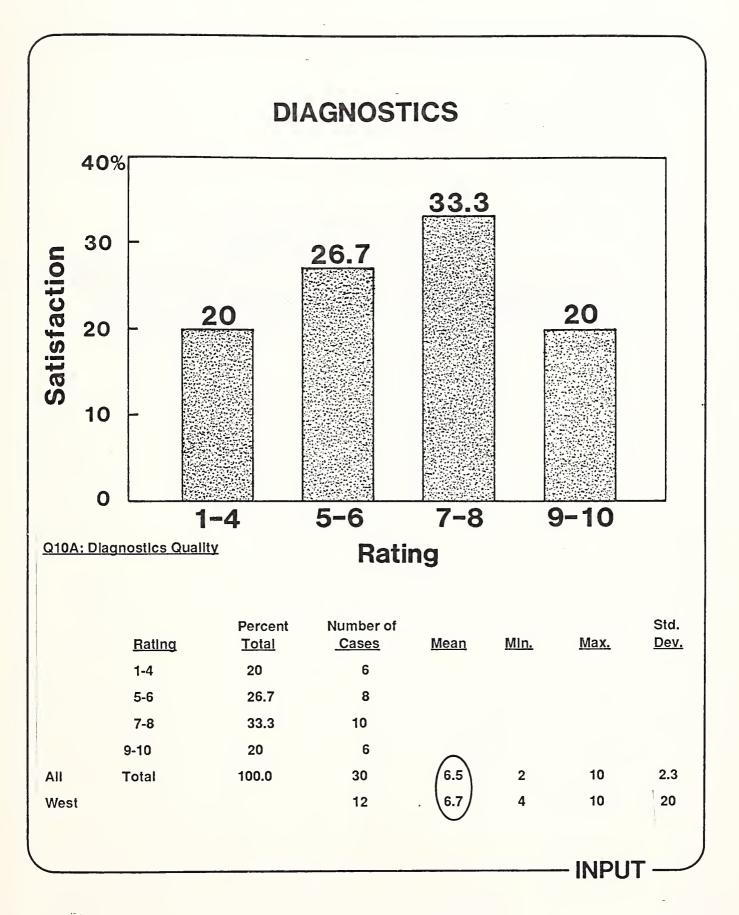
CE SKILL LEVEL



Q11E,F: Customer Engineer Skill Level Ratings

	<u>Code</u>	<u>Mean</u>	Mln.	Max.	Std. <u>Dev.</u>	Number of Cases
All	LOC	8.3	5	10	1.1	37
	REM	8.6	7	10	.9	23
West	LOC	8.6	6	10	1.0	12
	REM	8.6	8	9	0.5	7



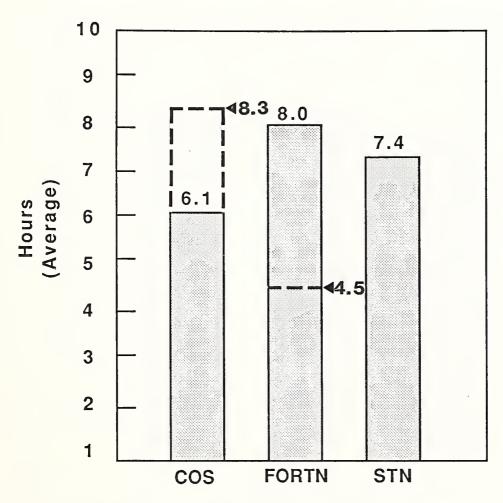




SOFTWARE RELIABILITY/SUPPORT



SYSTEMS SOFTWARE RESPONSE TIME



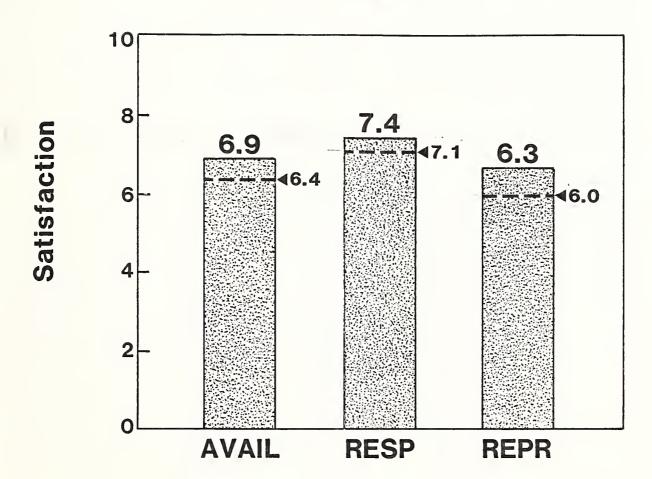
Type of Software

Q13: Systems Software Response Time

					Number of	
	<u>Type</u>	<u>Mean</u>	Mln.	<u>Max.</u>	<u>Cases</u>	<u>Description</u>
All	cos	6.1	.1	40	17	cos
	FORTN	8	.1	80	17	FORTRAN
	STN	7.4	.1	40	10	STATION
West	cos	8.3	1	16	3	cos
	FORTN	4.5	1	8	2	FORTRAN



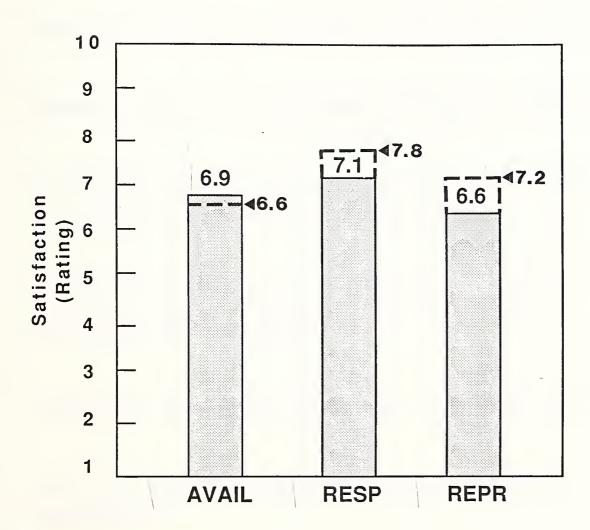
COS RATINGS



	<u>Code</u>	<u>Mean</u>	Min.	Max.	Std. <u>Dev.</u>	Number of Cases	<u>Description</u>
Aii	AVAIL	6.9	2	10	1.9	35	OS Avail./Reliabliity
	RESP	7.4	2	10	1.9	30	OS Maint. Response Time Rating
	REPR	6.3	2	9	1.6	30	OS Maint. Repair Time Rating
West	AVAIL	6.4	2	10	2.2	10	
	RESP	7.1	2	10	2. 5	8	
	REPR	6.0	2	7	1.6	9	-



FORTRAN RATINGS



Q15. Fortran Ratings (Q15)

	<u>Code</u>	<u>Mean</u>	Mln.	Max.	Std. <u>Dev.</u>	Number of Cases	Description
All	AVAIL	6.9	2	10	1.8		Fortran Avall./Rel.
	RESP	7.1	2	10	2		Fortran Maint. Resp. Time
	REPR	6.6	2	9	1.8		Fortran Maint. Repair Time
West	AVAIL	6.6	6	8	0.7	9	
	RESP	7.8	6	10	1.6	5	
	REPR	7.2	6	8	0.8	6	



SOFTWARE RESPONSE/REPAIR COMMENTS

"Takes Months to Resolve Software Problems."

"Takes 1 Hour to Forever to Repair Software."

"Is Responsive to Severe Software Problems, But Less So to Less Urgent Ones."

"Repair Time for Non-Critical Software Problems Is Terrible."

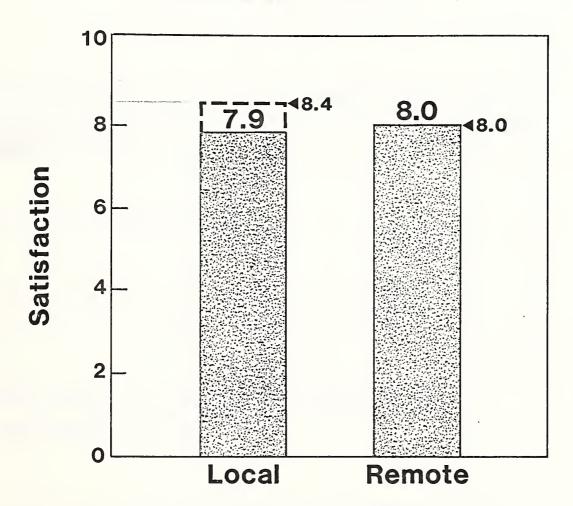
"Deferred Software Problems Take Too Long."

"CRI Is Terrible Regarding Bugs in Initial Releases."

"Many CRI Users in CUG Are Upset Regarding CRI's Quality Assurance Methods."



OS SKILL LEVELS



Q16: OS Skill Level Ratings

	<u>Code</u>	<u>Mean</u>	Mln.	Max.	Std. <u>Dev.</u>	Number of Cases	<u>Description</u>
All	LOCAL	7.9	4	10	1.6	28	Local On-site SW
	REMOTE	8	5	10	1.4	21	Remote (Dist., Reg., HQ)
West	LOCAL	8.4	8	10	0.8	7	
	REMOTE	8.0	7	9	1.0	5	



FORTRAN COMMENTS

"FORTRAN has Dropped in Quality in the Past Year."

"CFT Is a Nightmare."

"CFT Is a Shaky Piece of Software."

"We Feel No One Is Listening to Us Regarding CFT."

"Can't Get Any Attention at CRI Headquarters Regarding FORTRAN."

"FORTRAN Is a Memory Hog."



EXAMPLES OF UNIX COMMENTS

"We Are Uneasy About UNIX Planning."

"CRAY Should Carefully Evaluate if UNIX Is the Right OS."

"Very Important to Have Smooth Transition to UNIX."

"UNIX Information Flow to Us Is Sporadic."



COMMENTS CONCERNING SOFTWARE (GOVERNMENT CUSTOMERS)

"Want More CTSS Support from CRI"

"Improve Software."

"(CRI) Software Helps Competition."

"Repeatedly Ship Software That Doesn't Work."

"If We Had Relied on CRAY Software, We Would Have Been Much Further Behind."

"Taken CRAY a Long Time to Realize That Software Is Key to the Environment."

"If CRAY Software Were As Good As Their Hardware, No One Could Touch Them."



COMMENTS CONCERNING SOFTWARE (COMMERCIAL CUSTOMERS)

"Software Is Not Robust."

"Not At Same Level As Other Vendors."

"Need More Features."

"All Our Fault Finding with CRI Relates to Software."

"Insure Compatibility between OS Levels."

"Systems Software Development Is Crucial."

"Systems Software Failure - Our Strongest Concern."

"Software Is CRAY's Weakness."

"CRI Wants to Get Away from Software."

"CRAY Really Lacking in Systems Software."

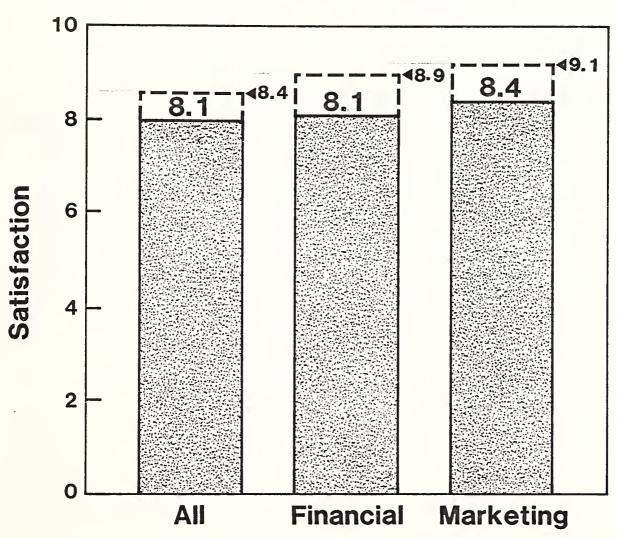


CRI MARKETING AND HQ MANAGEMENT

- INPUT



CRI RESPONSIVENESS

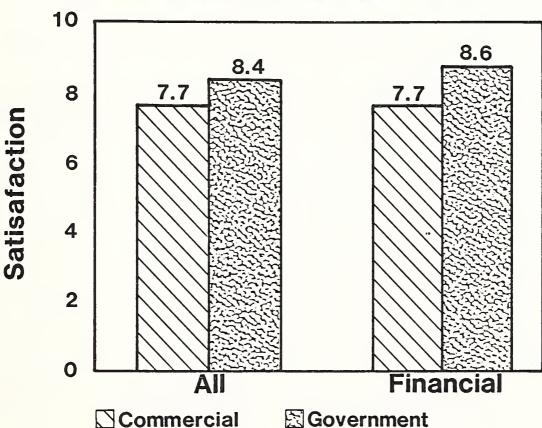


Q21A,B,C: CRI Responsiveness

	<u>Code</u>	<u>Mean</u>	Min.	Max.	Std. <u>Dev.</u>	Number of Cases	<u>Description</u>
AII	ALL	8	3	10	1.8	44	To Overall Needs
	FIN	8.1	3	10	2	41	To Financial Quest.
	MKTG	8.4	5	10	1.5	41	Marketing Person- nel Helpfulness
West	ALL	8.4	6	10	1.4	14	
	FIN	8.9	6	10	1.2	14	-
and something	MKTG	9.1	7	10	1.1	13	



CRI RESPONSIVENESS (COMMERCIAL/GOVERNMENT)



Q21AB : CRI RESPONSIVENESS

TYPE MEAN MIN MAX STD. DEV. CASES DESCRIPTION ALL 8 3 10 1.8 44 TO OVERALL NEEDS FIN. 8.1 3 10 2 41 TO FINANCIAL QUESTIONS

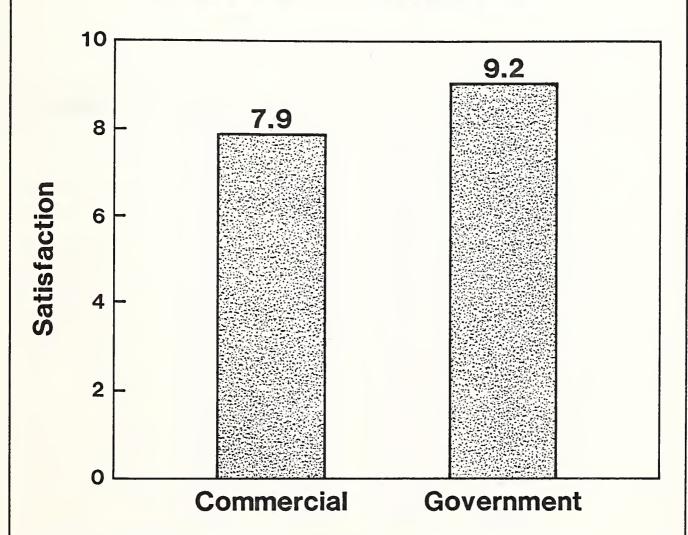
STD. DEV. STD. DEV.

ALL FIN (ALL) (FIN) 2.2 7.7 7.7 1.8 COM GOV 8.4 8.6 1.6 1.5

- INPUT



MARKETING RESPONSIVENESS (COMMERCIAL/GOVERNMENT)

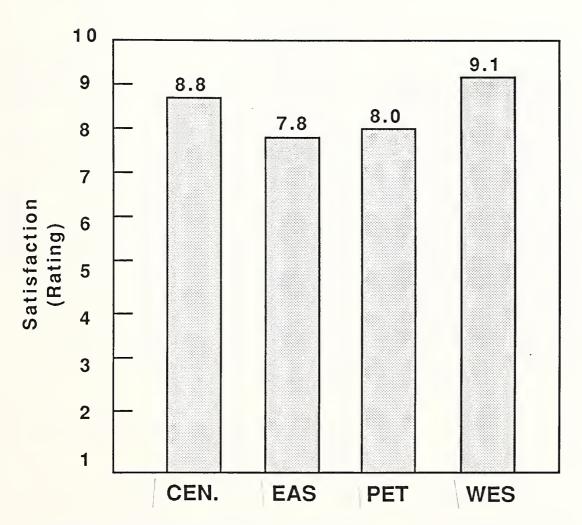


Q21C: MARKETING RESPONSIVENESS (COM/GOV)

TYPE	MEAN	MIN	MAX	STD. DEV.	CASES	DESCRIPTION
	7.9 9.2	5 7		1.5	24 17	COMMERCIAL GOVERNMENT
ALL	8.4	5	10	1.5	41	COMBINED



MARKETING RESPONSIVENESS (REGION)

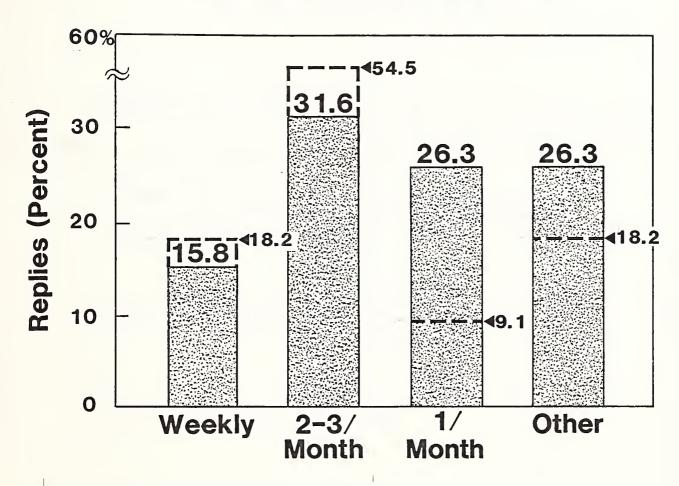


Q21C: Marketing Personnel Helpfulness (By Region)

<u>Region</u>	<u>Mean</u>	Min.	Max.	Std. <u>Dev.</u>	Number of <u>Cases</u>	<u>Description</u>
CEN	8.8	6	10	1.4	8	Central
EAS	7.8	5	10	1.8	10	Eastern
PET	8	6	10	1.4	10	Petroleum
WES	9.1	7	10	1.7	13	Western
ALL	8.4	5	10	1.5	41	All Regions Combined



FREQUENCY OF SALES VISITS



021D:	Frequency	of CRI	Marketing	Ren	Visits
WZ 1 D.	1 ICUUCIIC V	OI OIII	Mainellia	1160.	VISILS

	<u>Class</u>	Percent <u>Total</u>	Number of <u>Cases</u>	Description
All	Weekly	15.8	6	Once per Week
	2-3/Mo.	31.6	12	2 to 3 Times per Month
	1/Mo.	26.3	10	About once per Month
	Other	26.3	10	Other
	Total	100	38	
West	Weekly	18.2		
	2-3/Mo.	54.5		
	1/Mo.	9.1		
	Other	18.2		
	Total	100.0	11	



LOCAL SALES STAFF

- Most Are Responsive at the Local Level
- Kept Too Isolated from Corporate Activities, Decisions
- Don't Have Enough Authority
- Love Us and Leave Us

INPUT -



CRI HEADQUARTERS MANAGEMENT

- Responsive
- Available
- Too Inflexible Regarding Policies
- Sometimes Come Across As Arrogant

- INPUT



CRI'S MARKET POSITION

- To Date: Only Game in Town
- Very Soon: Significant Competition
 That Has Less Fast Hardware, But:
 - More Reliable Hardware
 - Better Systems Software
 - More Flexible Business Policies
 - Better End User Empathy, Support



TYPICAL ADJECTIVES USED BY RESPONDENTS

POSITIVE ADJECTIVES	NEGATIVE ADJECTIVES
Class Company	Set in Ways
Best Kid on Block	Arrogant
Great Hardware	Poor Software
Making Progress on Deficiencies	Progress Is too Slow

- INPUT -



COMPARISON: GOVERNMENT VERSUS COMMERCIAL

Item	Government Attitudes	Commercial Attitudes
CRI Image:	A Class Act	Not a Class Act
Standard of Comparison:	CDC, Other Supercom- puter Vendors	IBM, DEC, Japanese
Decision Criteria:	Speed Software	Availability Total Needs
Software:	Support CTSS	Support Production Processing



QUALITY AND PERFORMANCE STANDARDS ARE CHANGING

- Quality Definition Is Changing:
 - No Longer = Hardware Speed
 - Now = Hardware/Software/Support
 Availability and Reliability
- CRI Current Quality Is:
 - Superior to IBM in Terms of:
 - Hardware Speed, But
 - Inferior to IBM in Terms of:
 - Reliability
 - Hardware/Software Support
 - Sales Support



RECOMMENDATIONS

- Customer-Based
- INPUT-Based

- INPUT -



CUSTOMER-BASED RECOMMENDATIONS



PERCEPTIONS OF CRI ATTITUDES/CHANGE NEEDED

Current CRI Attitudes	CRI Needs to Change to
Meeting Expectations	Meeting Total Needs
Fixing a Problem	Avoiding Problem in First Place
Policy Clarification	Creating Better Ones Quickly
Wanting to Help	Making It Happen
Scientific Lab Oriented	Responding to Com- mercial Differences
Hardware Oriented	Total Computing Solution Oriented

- INPUT -



INCREASE INTERACTION WITH CUSTOMER TOP MANAGEMENT

Purpose:

Keep Key Decision-Makers Continuously Pro-CRI

- Suggestions:
 - More Frequent Sales Contact
 - More CRI Top Management Contact
 - Conduct Executive Seminars
 - Develop Top Management-Oriented Presentations/Papers



INCREASE INTERACTION WITH END USERS

• Purpose:

Help Information Systems Department Fill Up Installed CRAYs Faster

- Suggestions:
 - Get To Know End Users More Intimately
 - More Frequent Sales Contact
 - Establish Regular Flow of Applications Ideas
 - Newsletter
- Special Seminars
- Offer More End-User Applications Tools
- Publicize Availability of Third-Party Software



KEEP INFORMATION SYSTEMS PEOPLE BETTER INFORMED

Purpose:

Keep Key Personnel Happy, Sell More

- Suggestions:
 - Formally Communicate New Products,
 Services, Plans, Policy Announcements
 - Increase Frequency of Sales Contacts
 - Require Hardware/Software Support
 Managers to Meet Customers
 - Respond Faster to Pricing, Contracts,
 Product Questions
 - Send Special Summary of This Survey



GENERAL RECOMMENDATIONS

- Clarify Existing Plans/Directions
 - UNICOS Characteristics, Implications
 - YMP Status
- Develop "CRI Vision of the Computing Future" Presentation
- More Aggressively Stimulate End-User Demand for CRI Computing Power



SUMMARY: CUSTOMER ATTITUDES

- CRI Is a Very Impressive Company
- But Competitive Threat Is Greater Than CRI Realizes
- Customers Are Very Worried CRI is Insensitive to Need for a Total Computing Solution Strategy
- CRI Is Changing Too Slowly Regarding:
 - Role of Software
 - Reasonable Policies
 - Support After the Sale
 - Respect for the Customer
- Customers Like CRI and Want to Win



INPUT-BASED RECOMMENDATIONS



INPUT RECOMMENDATIONS:

BUSINESS STRATEGY

Reduce Image of:

We Are the Premier Hardware Performance Vendor

Increase Image of:

We Are the Premier Vendor for <u>Total</u>
Computing Solutions for the Large-Scale
Computing User

 Carefully Define, Respond to Commercial Versus Government Differences



INPUT RECOMMENDATIONS: BUSINESS STRATEGY

- Explicitly Define the Total Computing Solutions in Terms of:
 - Role of CRI in Commercial Shops
 - Role of CRI in IBM, DEC, Etc. World
 - Strong, Leading Edge Systems
 Software
 - Enhanced Information Systems and End-User Support



INPUT RECOMMENDATIONS:

MAKE SYSTEMS SOFTWARE QUALITY, QUANTITY A TOP PRIORITY

- Software Now Perceived As Afterthought
- Make It a Major Competitive Edge
- Provide Powerful:
 - OS Functions
 - Languages
 - Applications Development Tools

- INPUT



SUMMARY

- User Expectations Are Changing and Increasiing
- Customers Are Loyal, Want CRI to Prosper
- Government/Commercial Distinctions Becoming Apparent
- Customers Concerned CRI Is Underestimating Importance of Total Computing Solution Strategy
- Result: Loyalty to CRI Will Diminish as Com-\ petition Grows
- Opportunity: Demonstrate CRI Can Respond to these Changiling Customer Needs



SAMPLE QUESTIONNAIRE

INPUT -



PG.	1	CRAY	CUSTOMER	SATISFACTION	SURVEY(ON-SITE/PHONE)	#ZCRY_
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INTRODUCTION

Cray Research has commissioned INPUT to conduct a national customer satisfaction survey of all Cray computer users. The purpose of the survey is to help Cray identify opportunities to best serve you and others in the future.

INPUT is an independent international market research and consulting firm that specializes in the computer industry.

Cray has specifically asked us to interview you. Your opinions and suggestions are very important to Cray. We would like to get your candid responses at this time. If you wish any of your answers to be treated anonymously, please let us know.

SYSTEM PROFILE

1. To begin with we would like a quick profile of your current Cray computer system(s).

		System #1	System #2	System #3
a.	Model Type			***
b.	Date of Installation			
c.	Operating System		-	
d.	Maint. Contract Type			
e.	Maint. Service Since (Month/Year)			
f.	Type of processing for majority of work:			
	(Circle answer)	PRODUCTION	PRODUCTION	PRODUCTION
		RESEARCH	RESEARCH	RESEARCH

Definition: "Production" processing directly serves the organization's primary operational mission and is characterized most often by repetitive tasks that are frequently time critical. In contrast, "Research" processing usually involves projects dealing with investigations of scientific-related phenonemena, and is typically less time critical than production tasks.



DECISION CRITERIA						
2. If your organization were to purchase a supercomputer today how important would each of these factors be in the purchase decision process (scale of 1 to 10, with 1 = very low and 10 = very high importance). Rating (1 to 10)						
a. Overall system performance						
b. System reliability						
c. Availability of systems software						
d. Availability of applications software						
e. Vendor reputation for maintenance						
f. Overall system price						
g. Maintenance price						
PERFORMANCE						
3. How many hours per week is your system currently scheduled to operate? HOURS						
4. What is your percentage of utilization of the system during the past month, i.e. what portion of the time is the system actually being used, expressed as a percentage of the time the system is available for use. (Excluded from available time is downtime due to preventive maintenance and non-problem related software update time.)%						
5. What percent utilization (on average over the past 6 months) are you currently experiencing with the entire system?						
6. How many hardware or software-caused system interruptions per system do you have monthly (on average over the past 6 months)?						
a. What percent are hardware related?						
b. What percent are software related?						
c. What percent are "other" (environment, etc.)?						
TOTAL = 100%						

PG. 2 CRAY CUSTOMER SATISFACTION SURVEY(ON-SITE/PHONE) #ZCRY____



HARDWARE				
7. On the average how long does it take Cray to respond once you have placed a maintenance request:				
a. during regular maintenance availability time?minutes				
b. during off-hours?minutes				
8. On the average how long does it take your Cray customer engineer to repair routine hardware problems once work has begun?hours				
9. On a scale of 1 to 10, how satisfied are you with Cray's:				
Rating (1 to 10)				
a. Mainframe availability/reliability				
<pre>b. Peripheral availability/reliability (e.g. disks, tapes, I/O subsystem)</pre>				
c. Hardware maintenance response time				
d. Hardware maintenance repair time				
10a. On a scale of 1 to 10, in your opinion what is the level of quality of the diagnostic procedures currently being used by Cray?				
10b. What factors influenced your rating?				

PG. 3 CRAY CUSTOMER SATISFACTION SURVEY(ON-SITE/PHONE) #ZCRY____



foll	Please rate on a scale of 1 to 10 your requirements for the lowing hardware goods and services, as well as your current of satisfaction.
	Requirement? Satisfaction (YES/NO) (1 to 10)
a.	Hardware installation consulting
b.	Hardware documentation
c.	Parts availability
d.	Cray's escalation procedures
e.	Cray ON-SITE customer engineer skill level
f.	Cray FIELD hardware technical support personnel skill level (i.e. region or headquarters -based people)
SOFI	· WARE
12.	For which of the following types of systems software are you currently receiving support (check all that apply)?
	COS CTSS UNICOS
	FORTRANSTATION
	Operating System FORTRAN STATION
13.	On average, how long does it take Cray to RESPOND to a systems software problem? (in hours)
14.	On average, how long does it take Cray to RESOLVE a systems software problem? (in hours)

PG. 4 CRAY CUSTOMER SATISFACTION SURVEY(ON-SITE/PHONE) #ZCRY___



PG.	5 CRAY CUSTOMER SATISE	FACTION	SURVEY(ON-	SITE/PHONE)	#ZCRY
			-		
			Operating System	FORTRAN	STATION
15.	How satisfied are you (1 to 10, 10 = highest)	with:			
	a. Systems software availability/reliabil	lity			
	b. Systems software maintenance RESPONSE	time			
	c. Systems software maintenance REPAIR ti	ime		,	
16.	How satisfied are you with the different method of software support, as provided by:	ods			
	a. Cray's ON-SITE softwanalyst?	ware			
	b. Cray FIELD software technical support personnel (region or headquarter-based)?	î			
	•				
	Would you be willing to port maintenance by any o	_			are
	(3	Doing Now? YES/NO)	Would Consider Doing? (YES/NO)	Discount?	?
a. 1	Working with a support center to diagnose a problem.	.ES/NO/	(IES/NO)	(IES/NO) I	
b.	Installing patches or modifications developed by Cray.				
c.	Installing new releases received				

from Cray.



following systems software	of 1 to 10 your requirements for the goods and services, as well as your
current level of satisfacti	ion: SATISFACTION (1 TO 10)
-	Operating System FORTRAN STATION
a. Systems software documentation	
b. Systems software training at your site	
c. Systems software training at Cray headquarters	
d. Systems software consulting	
e. Systems software escalation	
• GENERAL	
19a. On a scale of 1 to 10, hardware installation servi	how satisfied were you with the ce provided by Cray?
rating above?	lenced your installation satisfaction

PG. 6 CRAY CUSTOMER SATISFACTION SURVEY(ON-SITE/PHONE) #ZCRY____



20a. Would you like to see Cray become more active in the use of remote diagnostics?
YES NO
20b.Why or why not?
<u> </u>
21. The following questions relate to how well you like doing business with Cray. Please respond on a scale of 1 to 10 with 1 being not satisfied and 10 being extremely satisfied. Satisfaction (1 to 10)
a. Extent Cray is responsive to your organization's overall needs
b. Cray's responses to your financial questions
c. Helpfulness of Cray marketing personnel
In regards to your Cray marketing representative:
d. On the average, how frequently have you seen that person face to face during the past six months?
ABOUT ONCE PER WEEK
ABOUT 2 TO 3 TIMES PER MONTH
ABOUT ONCE PER MONTH
OTHER
(Specify frequency)
e. How many working days has it been since you last you last received a visit from that person?
DAYS SINCE LAST VISIT

PG. 7 CRAY CUSTOMER SATISFACTION SURVEY(ON-SITE/PHONE) #ZCRY____



22. fol	On llow:	a scale of 1 to 10 (10 = high) please rate ing categories:	Cray in the Satisfaction (1 to 10)
	a.	Overall satisfaction with Cray's maintenance service	
	b.	Price of maintenance service	
	c.	Frequency of interaction with Cray executive and senior management personnel	
		at suggestions do you have concerning how i	
be 	imp	roved between Cray executives and Cray cust	omers?
	•		
		n a scale of 1 to 10, how well is your Cray your expectations: Expectatio Level (1 to 10)	
	a.	When you first acquired it?	
	b.	Currently?	

PG. 8 CRAY CUSTOMER SATISFACTION SURVEY(ON-SITE/PHONE) #ZCRY____



	to what has been discussed above, is there ald do to further improve your satisfaction with
	-
suddenly receive	considered, if tomorrow morning you were to funding approval for acquiring additional pability, would you buy from Cray?
YES	NO
26b. Why or wh	ny not?
•	
like to pass alon	any other suggestions or comments that you would ng to Cray concerning any aspect of their , what are they?

PG. 9 CRAY CUSTOMER SATISFACTION SURVEY(ON-SITE/PHONE) #ZCRY____



PG. 10 CRAY	CUSTOMER	SATISFACTION	SURVEY (ON-SITE	PHONE) #ZCRY
ADDITIONAL NO	OTES		-	
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THANK YOU VERY MUCH FOR YOUR TIME





